EOSDIS Core System Project

Interim Release One (Ir1) Version Description Document (VDD) for the ECS Project

Version 1.04

May 22, 1996

Hughes Information Technology Systems
Upper Marlboro, Maryland

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Version 1.04

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Prepared Under Contract NAS5-60000

SUBMITTED BY

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Preface

This document describes the configuration of Version 1.04 and the delta changes since the release of Version 1.03 of Interim Release One (Ir1). This attachment reflects updates to software released as of May 7, 1996. It is not a formal deliverable and does not require Government approval. However, it has been placed under configuration control by the ECS CCB. Changes to this document shall be made by document change notice (DCN) or by complete revision.

Any questions regarding distribution should be addressed to:

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Abstract

This document describes the delivery contents of Ir1 (also referred to as *the product*) components including Commercial Off-The-Shelf (COTS) hardware and software (*Ir1 COTS*), Version 1.00 of custom Ir1 ECS software (*Ir1 Software*) and accompanying documentation.

The purpose of this document is to describe the contents of the Ir1 delivery. It briefly describes the capabilities of the product, provides an inventory of the delivery, lists unresolved problems, and addresses issues such as special operating instructions, system limitations, and disclaimer notices for public domain software used in the product.

This document describes the configuration of Version 1.04 and the delta changes since the release of Version 1.03 of Interim Release One (Ir1). This attachment reflects updates to software released as of May 7, 1996.

Keywords: version, description, release, software, Ir1, hardware, deliver, CCB, problems, instructions, TRMM, SSI&T, inventory

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Document History			
Document Number	**Status/Issue**	**Publication Date**	**CCR Number**
814-RD-004-001	Original, Version 1.00	January 3, 1996	96-0044
814-RD-004-002	Version 1.01	January 31, 1996	96-0107
814-RD-004-003	Version 1.02	February 9, 1996	96-0108
814-RD-004-004	Version 1.03	April 10, 1996	96-0370
814-RD-004-005	Version 1.03	May 7, 1996	96-0370A
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NCRs closed as of May 20, 1996

Problem Id: ECSed01563
Severity: 5
Title: Setup cron job to periodically purge Sybase logs
Problem **:**   Set up cron job at each DAAC to periodically purge the Sybase server log
               located on the SSIT SUN server.

               Background: Each of the 3 database tables on the Sybase server at each site
               will require periodic purging of the log file. Currently Carol has set up a
               script that takes care of the PGE database log. It will clear it once it reaches a
               certain size and put the entries in an archived file. That file, in turn will
               increase in size and will require M&O intervention for backup, etc.

               The other two databases that require similar scripts are the event-log and
               autosys databases. Once these scripts are set up in the EDF they should be
               propagated to all Ir1 DAACs.
Resolution**:** The last chance threshold procedure has been activated for the and the
               autosys31 db. A separate disk dump device has been added for each db:
                    logical device name   physical device name
                    autolog31_dump   /disk4/nicsyblog/devices/autolog31.dump
                    sybaselog1_dump   /data4/sybasedevices/log1_dump

               As a reminder, this procedure will automatically clear the txn log and write it
               to the specified physical device name (file), as the log gets dangerously close
               to suspending services.

Problem Id: ECSed01567
Severity: 4
Title: Alphanumeric displayed partially in PCE Window
Problem: (1) Alphanumerics are not displayed completely, especially the underscore
               (_) character in the boxes for directory path and file of the PGE window.

Resolution: The GUI widegets dimensions were slightly changed to accommodate the text.

Problem: (2) The GUI widegets dimensions for the 'Process Control File' and 'Edit PGE Dependency' boxes need also to be changed to accommodate the text (underscore)..

Problem Id: ECSed01581
Severity: 3
Title: DDTS WEB interface test
Problem:
Resolution: Test WEB interface to DDTS.

Problem Id: ECSed01608
Severity: 2
Title: Gateway Proxy at GSFC intermittently sleeps and does not come back
Problem: The Gateway Proxy at GSFC sometimes will stop listening and does not want to start. This happens intermittently.

Note: A beta version of the Gateway Proxy to fix this problem has been tested and works fine.

Resolution: Gateway threads were synchronized using a mutex. There was a problem in the way the mutex was being handled (lock/unlock). This problem has been corrected in the Gateway code.

Problem Id: ECSed01612
Severity: 3
Title: SQL server times out
Problem: When attempting to bring up AutoSys on server ait1sungsfc, I receive a time-out error message. This happens from the SSIT Manager when I click on AutoSys Monitor, PGE Registration, and also PGE Processing. From the command line, I enter the following commands:

> cd /data/autotree1/autosys/bin
> autosc &
> autocons &

The console windows do not appear and I receive the SQL time-out errors.

Resolution: The client (ait1sungsfc) was not configured right. Configuration changed to correct the problem.

Problem Id: ECSed01613
Severity: 1
Title: MSS directories need to be added for the MSS S/W at GSFC
Problem: The README.mssinstall and README.ovscripts in the /Ir1_IT/MSS/bin directory specifies that there should be some additional configuration for the MSS S/W on all of the machines at GSFC in order for HP OpenView to do what it's supposed to do. This procedure needs to be done by the site administrator.
Resolution :

Problem Id: ECSed01614
Severity: 3
Title: Cannot access NCR Web Tool at LaRC
Problem: For Test Case 3.19 - Remote NCR, I am required to enter an NCR remotely
               from all of the DAACs to the EDF. At LaRC, I cannot access the web page
               through Mosaic:
                      http://newsroom/sit/tee/teehome.html
Resolution: DDTS WEB interface test, the proper URL is:
                      http://newsroom.gsfc.nasa.gov/sit/ddts/ddts.html

Problem Id: ECSed01620
Severity: 1
Title: AutoSys @GSFC doesn't have the required *.sql files
Problem: Apparently, the IR1_PDPS_AIT_SUN5_011096.tar.Z file, does not have the
               *.sql files needed for the processing of PGS data. The *.sql script files are
               needed to process the 'custom' software for GSFC.
Resolution: • Scripts have been added in the PDPS software.
               • Environment variables point to the Sybase at GSFC.

Problem Id: ECSed01622
Severity: 1
Title: NCR Web Tool Doesn't have the required *.sql files
Problem: While testing TC3.19 - Remote NCR, I noticed that there isn't a 'location'
               option for EDC. The options available are:
                      1) MSFC
                      2) GSFC
                      3) LaRC
               EDC needs to be added in order for Test Case 3.19 - Remote NCR to work.
Resolution: HTML form corrected to include EDC.

Problem Id: ECSed01624
Severity: 2
Title: SQL scripts inadvertently left out of delivery
Problem: SQL scripts required for PGE database initialization were inadvertently
               omitted from the Ir1 delivery tar file. The PDPS prototype will not work until
               the databases properly initialized.

               Problem discovered by S.Berrick and D.Case of the ECS Science Office
               while attempting to set up SSI&T on the Goddard machines ait1sungsfc and
               ins1sgigsfc.gsfc.nasa.gov.

               Workaround: Get SQL scripts from C.Bonney of ECS. Run the scripts as
               directed in the instructions for M&O.
Resolution: Carol Bonney collected the scripts and wrote a README file on how to use
               them:
                      $DPATMGR_HOME/DpAtREADME.PGE_DB_INIT
               All SQL scripts needed to initialize the PGE database are now part of the
               PDPS Sun tar file.

Problem Id: ECSed01630

Severity: 1
Title: Exabyte 8mm tapelib unit broken
Problem: The Exabyte 8mm tape stacker unit on the spr1sgiedc computer system at
              EDC has a ERROR message displayed on the LED:
                      ERROR 30: S AXIS does not move
              The manual indicates to RESET the unit and if the problem continues to
              contact the vendor. RESET has been attempted several times with the same
              error result. Contacted Joe Hurst via telephone and he is in the process of
              contacting vendor directly.
Resolution: A tape unit was shipped on Friday (1/25) to EDC. The broken unit is being
              shipped back to EDF and will be repaired here. The tape unit is installed and
              configured at EDC.

Problem Id: ECSed01633

Severity: 3
Title: Missing Manuals/Documentation
Problem: EDC did not receive any of the Microsoft Windows or Microsoft Office
              manuals/documentation packages.
Resolution: NCR 1633 - Can be closed, apparently the documentation came on CD's
              only. No books.

Problem Id: ECSed01647

Severity: 3
Title: DpAtExecutionMain.err/.out need more than owner write privilege
Problem: When DPR jobs execute, the files DpAtExecutionMain.err/.out are created in
              a system directory with only owner write privilege. The protections on the
              files need to opened up so that other uses can write to files, since we can't
              count on users to redirect the DPAT_STD_ERR and DPAT_STD_OUT
              variables to local files.

              Update: 2/27/96 - Nitin
              These files are controlled by environment variables. Users will have an
              option to create these files where they have permissions (home directory).
              This information will be added in the greenbook.
Resolution: These files are now under user control. If the user want to have these files
              written out he/she must set the environment variables DPAT_STD_OUT and
              DPAT_STD_ERR as follows:
                      DPAT_STD_OUT /user defined directory and filename
                      DPAT_STD_ERR /user defined directory and filename
              User has to make sure that the directory is writable. Otherwise Autosys won't
              even run the DPR. SSI&T needs to have this in their documentation. If these
              variables are not defined, Autosys writes stderr and stdout to /dev/NULL by
              default.

Problem Id: ECSed01648

Severity: 3
Title: Install create of ir1_pdps needs insert of a default tbl_dpr entry

Problem: Sybase install needs modification of custom SQL script that builds PDPS
             database. In order for DPR to execute, after schema for ir1_pdps is created
             need to insert table entry into tbl_dpr for default (a.k.a. golden) DPR with a
             SQL insert like insert into tbl_dpr (dpr_id, pdps_version, creation_date,
             pge_info_type, pge_info_version) values ('ToolkitDprId', '0.1', getdate(),
             'test_pge', '1.0')
Resolution: In the database creation *.sql scripts, code has been added to create a default
             record. This is delivered in version 1.02.

Problem Id: ECSed01650
Severity: 4
Title: Help on command line DPR submission is wrong
Problem: The supplied help on how to submit DPRs for processing by command line is
             missing a necessary argument (-pv[pgeVersion}) and lists the wrong
             executable (the html lists DpAtProcessingGui instead of DpExecutionMain).
             A user following the directions will bring the DPR GUI not submit a DPR.

             Update: 2/27/96 (Nitin)
             Help is corrected to reflect the correct command line arguments. Available in
             next build.
Resolution: The error is now corrected. Verified that command line Help for DPR
             submission has been updated.

Problem Id: ECSed01651
Severity: 4
Title: Successful PGE registration needs to pge_id to command line

Problem: Successful PGE registration currently results in the PGE Reg. GUI
             disappearing, nothing else. Users have a need for:
                  (1) some minimal command screen message that PGE Registration was
                  successful as is done with the DPR submission
                  (2) a reporting to user of the resulting PGE ID (pge_id); the DPR ID is
                  reported to the user in both within the DPR GUI itself and to the
                  command screen window when a DPR is submitted

             Update: 2/27/95 (Nitin)
             (1) some minimal command screen message that PGE Registration was
             successful as is done with the DPR submission

             A message is now displayed in response to the registration on the terminal
             with the status of the registration. Available in next build.

             (2) a reporting to user of the resulting PGE ID (pge_id); the DPR ID is
             reported to the user in both within the DPR GUI itself and to the command
             screen window when a DPR is submitted

             There are alternate ways to get pge-id that was created from the database.
             This feature will be considered for future ECS releases.
Resolution: Registration now reports to the user with the PGE id on the stderr.

Problem Id: ECSed01659
Severity: 3
Title: DpAtINSTALL.sh script needs to be updated
Problem: The DpAtINSTALL.sh needs to be updated because the line setting the
                Autosys database is wrong.
        sed "s%autosys_databse%autosys_name%g" | was written
        sed "s%autoesy_database%autosys_name%g" | is needed
Resolution: The error was corrected in the install script

Problem Id: ECSed01673
Severity: 2
Title: EDC failure to create /Ir1_IT/AI_T/bin/sun5/TempJilScript
Problem: On the EDC machine ait3sungsfc, I was able to register a PGE through the
                PDPS GUIs, but was unable to submit a DPR successfully as has been done
                at the other DAACs for Ir1. No PCF was instantiated. Nothing was written to
                /Ir1_IT/AI_T/bin/sgi/DpAtExecutionMain.err.

                The messages I got to the screen (where DpAtMgr was brought up from)
                were:
        Errid = DpAt|0.1|11775|SunOS|5.4|ait3sunedc|192.107.195.11|
        SYSTEM_ERROR...$DpAtTempFile path name is invalid

                I then checked what DpAtTempFile was set to, and it looked fine
        {ait3sunedc:/home/cboettch:25} echo $DpAtTempFile
         /Ir1_IT/AI_T//bin/sun5/TempJilScript

                The directory /Ir1_IT/AI_T//bin/sun5 exists, but no TempJilScript file
                existed. I also checked that the double "//" in the env of $DpAtTempFile
                made no difference.

                I then found that I couldn't even create a file in /Ir1_IT/AI_T/bin/sun5
                myself, even though I could do so on machines at other DAACs and even
                though the protestions seemed to be set up on ait3sunedc to allow me to.

        {ait3sunedc:/Ir1_IT/AI_T/bin/sun5:90} m /usr/local/hislog/pdps_event.log
        100860049|3|1|02/14/96 14:21:24|DpAt|0.1|11775|SunOS|5.4|ait3sunedc|
        192.107.195.11|11775|SYSTEM_ERROR...$DpAtTempFile path name is
        invalid.

                Suggested fix: To create a file in the temporary directory using the function
                tmpnam. This file should also be specific to the user running the DPR.
                Creating the file in /tmp will avoid the permission and user access problems
                (multiple unique files can be created). To be fixed in the next PDPS build.
Resolution: The problem is now fixed. The file is now written to /tmp. A temporary
                filename is generated for the file with a prefix JIL.

Problem Id: ECSed01691
Severity: 4

Title: SSI&T Prolog Extractor should allow *.f F90 file extensions
Problem: Dan Packman (NCAR/MOPITT; pack@acd.ucar.edu) has requested that a
            change be made to the Prolog Extraction tool supplied by ECS with the Ir1
            SSI&T support tools. He asks that the tool be modified so that it accept and
            work with Fortran 90 source code files that have the extension ".f", instead of
            just accepting F90 source code files that end with ".f90". The current tool
            design assumes that source code files with extensions ".f" are Fortran 77
            files. Below is an excerpt of email from Dan Packman discussing this.

            >
            > Perhaps I don't understand the functionality of this prolog extractor,
            but if prolog >delimiters are defined for Fortran 77 as "!F77" and
            "!END" and as "!F90" and "!END" >for Fortran 90, then it seems easier
            to design such an extractor to work on either form >interchangeably.
            >
            > While it might be a bit late to change this now, it might have been
            even easier to arrive at a language independent method of delimiting
            prologs. Instead of:
            >
            >   fortran77   !F77   !END !F77-INC
            >   Fortran90   !F90   !END !F90-INC
            >   C   !C   !END !C-INC
            >   Ada   !ADA   !END
            >
            > one could use   !PROLOG !END !PRO-INC

            Update: Tom Atwater to fix for the next release depending on resources.
            Nitin 3/39 It was mentioned in today's 1.03 planning meeting that this
            should be done in case insensitive manner. Fix done, available in v1.03 .
Resolution: Fixed by Tej Khalsa. Tom 3/29
            Fix: F90 modules may now end in .f Delimiters are case-insensitive
            PROLOG may now be used as start delimiter for any language. Tom 4/1

Problem Id: ECSed01733
Severity: 4
Title: Clobbering of SDP Toolkit environment setup
Problem: SSI&T personnel need the ability to switch between various Toolkit
             environments (e.g. between SCF version and DAAC version; between 32-bit
             and 64-bit versions) from within the same shell. In some cases, running a
             version of pgs-dev-env.csh after another version has already been run causes
             some part of the resulting environment to be clobbered. Currently, starting a
             new shell is the work-around. However, future releases should guarantee that
             this is not necessary.
Resolution: Updated INSTALL-Toolkit to unset all condition flags when generating the
             pgs-dev-env files.

             Updated template files pgs-dev-env.csh.tmp and pgs-dev-env.ksh.tmp to
             ensure that DAAC configuration flags are cleared.

Problem Id: ECSed01751

Severity: 3
Title: Can not print from Excel
Problem: More information from jdavis (Nitin 3/7)
              1. I tried to print "the Green Book", a very large document, directly from Word and couldn't. I had to print to an EPS file and then print from the UNIX command line. I thought that applied to all Wabi applications, so...
              2. ...when trying to print an Excel spreadsheet, I tried to print to an EPS file and then print from the UNIX command line. It was a disaster.
              3. Carolyn Whittaker showed me how to print directly from both Word and Excel from Wabi when Wabi was invoked from the command line. This worked fine.
              4. I haven't tried printing directly to the printer (instead of an EPS file) from Wabi when Wabi was invoked from the SSIT Manager. There may still be a problem since Wabi at that point is user recorder, not user jdavis. I haven't gotten to test that out yet, though. The machine on which this happened was ait1sungsfc. The printer was ait3hpgsfc.

              Update: from jdavis 3/7 -- Wabi does allow selection of network printers from the Print Manager. That is not a problem.

              I tried printing from Excel using Wabi invoked by the SSIT Manager. I selected the appropriate printer from "Printers" in the Control Panels. I tried to set up the spreadsheet using page setup in Excel and was unable to make it fit the spreadsheet to one sheet (problem 1). I then printed it and nothing came out on the printer, not even ten minutes later. This was still using ait1sungsfc and ait3hpgsfc.
Resolution: Jeff 4/4 -- The NCR 1751 was just fixed, it was a configuration problem in wabi under the printer definitions section, the default printer was not assigned...

Problem Id: ECSed01780

Severity: 5
Title: Command line help for pccheck.sh is incorrect
Problem: Nitin 3/7 (msg from jdavis)
              If you want to know the syntax of pccheck.sh, you can simply type "pccheck.sh" at the command line and a brief syntax explanation appears. However, the explanation starts off by showing the command to be "pccheck" instead of "pccheck.sh".
Resolution: Updated pccheck.sh to fix the error in the syntax message

Problem Id: ECSed01819

Severity: 3
Title: CERES/MISR/MOPITT TK Mods for LaRC
Problem: The Langley DAAC needs an updated version of the SDP Toolkit containing all Toolkit enhancements which have been provided to the CERES, MISR, and MOPITT Instrument Teams for their SCF Toolkits. This update is required no later than April 1, 1996, to support the next phase of CERES SSI&T.

These updates are required for consistency with the Toolkits deployed at the SCFs. The Instrument Teams rely on the DAAC to have a Toolkit at least as current as theirs.

This NCR should not be considered closed until procedures have been put in place to coordinate distribution of Toolkit enhancements with both the SCF and the DAAC so that consistency can be maintained.

Files from Ed Larson: I've listed below the files we want to deliver with your Ir1 'bug fix' release. Please let me know when we need to have them all set-- a days notice would be fine.

/ecs/formal/TOOLKIT/src/PC/PGS_PC_GetPCSData.c	already on main branch
/ecs/formal/TOOLKIT/src/PC/PGS_PC_GetFileName.c	already on main branch
/ecs/formal/TOOLKIT/src/EPH/PGS_EPH_EphemAttit.c	needs to be merged from common_dev1 branch
/ecs/formal/TOOLKIT/src/CSC/PGS_CSC_GetEarthFigure.c	needs to be merged from common_dev1 branch
/ecs/formal/TOOLKIT/src/CSC/PGS_CSC_UT1_update.c	will appear on common_dev1 branch soon
/ecs/formal/TOOLKIT/src/CSC/update_utcpole.sh	will appear on common_dev1 branch soon
/ecs/formal/TOOLKIT/database/xxx/CSC/utcpole.dat	will appear on common_dev1 branch soon
/ecs/formal/TOOLKIT/database/xxx/TD/leapsec.dat	will appear

Observed Corey Boettcher execute DPR jobs. stderr &stdout written to user defined dir/file when DPAT_STD_OUT & DPAT_STAD_ERR are set or to /dev/NULL when not set. Original 1.03 fix. To be delivered in 1.04.

Resolution: The files affected are listed in enclosure 'file'. Need a toolkit build to release these files.

Problem Id: ECSed01824
Severity: 2
Title: Toolkit cannot seem to update PCF with temporary I/O entries
Problem: The Toolkit cannot seem to update the PCF with temporary I/O entries when the PGE is run from another directory branch. Here's what was observed with a PGE (MOD29.exe) the makes use of temporary I/O in its PCF (MOD29.pcf):

    1. Both the PCF and the executable EXIST:76802
      File not found in product group: %d

      PGS_PC_PutPCSData():PGSPC_W_NO_FILES_EXIST:76802
      File not found in product group: %d

PGS_IO_Gen_Temp_Delete():PGSIO_E_GEN_FILE_NODEL:11796
File does not exist, or cannot be deleted

This problem is NOT seen whenever the executable is run from any directory under /volb0 (e.g. /volb0/modis, /volbo/junk, /volb0/modis/junk, etc.).

Analysis (Added 960328 by nvazarka) on Mar 20, 2:43pm

> <Ray Milburn wrote:
> Subject: Re: Bug ECSed01824
>
> Ed,
> These are already fixed. I knew I had not told you about another problem that I had fixed for TK6. I could not remember what it was and unfortunately, I did not take notes (oops). I fixed the PC Tools (for TK6) so they will work across file systems. Therefore, both of these problems should be fixed already.
>
> Ray,>
>
> <Can you put the solution in the Ir1 NCRs ECSed01823 and 1824 OR point them to the toolkit NCR that closes these problems (if there is one)?
>
> Can you also send me a list of the files that have the fix in them? I'll then deliver these fixes in Nitin's sustaining engineering/delta/bug fix
> Ir1 release that's coming up soon. I'm hoping you'll tell me I can deliver the
> latest versions of the files on the main branch and that those files will work
> with the rest of Ir1 and don't require any updates to header files, etc.,
>
> Thanks!
> Ed>

Resolution: Refer to the analysis enclosure.

Problem Id: ECSed01826

Severity: 3
Title: Error in PGS_PC_Shell.sh Help screen
Problem: The help screen that comes up with the -h option from PGS_PC_Shell.sh has an error. The Help screen indicates that specifying a SMF cache size is optional. In fact, it is not optional. Both the internal prolog in PGS_PC_Shell.sh and the TK User's Guide indicate that this parameter must be specified. The Help screen, however, shows it as being optional (enclosed in square brackets).
Resolution: Ray to enter data.

Problem Id: ECSed01829

Severity: 2
Title: Need better command-line interface to allow longer list of options
Problem: DpAtProcessingGui has a command-line syntax that allows one to change files and runtime parameters associated with logical IDs before the DPR is submitted. However, when more than a few files need to be changed and when the filenames and/or pathnames are long, the Unix maximum command line length is quickly reached.

MODIS requests an interactive interface that will allow logical ID exchanges to be done one per line. This interactive interface would also allow the reading of such responses from a "script" as well as from the keyboard. In this way, scripts could be written to feed the interface with many DPRs, each requiring many changes.

Resolution: Changed source code. Alward to add details.
             The problem is not too difficult. Instead of taking all the information from one command line, the interactive section of the program needs to modified so that the user is prompted to enter for each option.

This NCR was verified with assistance from Steve Berrick and Alward Siyyid. Although the command-line interactive interface was quickly verified, core dump problems led to the initiation of NCR 1901.

Problem Id: ECSed01843
Severity: 2
Title: Upgrade to HDF 4.0 required
Problem: The Langley DAAC needs to have HDF upgraded to version 4.0 or higher to support the CERES Instrument subsystem SSI&T. Version 3, deployed with Ir1 v1.02, does not support files greater than 32MB; CERES will be processing with files larger than this limit.

This fix is required by 04/15/96.

Background: Langley has asked for installation of HDF 4.0 in ADDITION (they would like to be able to use either version) to the HDF 3.3. GSFC has also mentioned some interest in this UPGRADE.

Analysis: Nitin 4/3
After talking to Mike Sucher/Jason Watts, my understanding is that this should not be a big problem. The two versions can coexist and the users can point to different versions of the HDF using environment variables. Some quick notes about HDF:

    - HDF 3.3 is located in directory:
      /Ir1_IT/daac_toolkit_f77/TOOLKIT/hdf/ARCH/HDF3.3r4/... (ARCH is the object type)
    - It is installed as part of the toolkit installation.
    - Environment variables are created on-the-fly (during installation) to point to the HDF (I counted 6 of them).

- HDF is a freeware (?) from NCSA and version 4.0 is now available for download. It fixes some bugs with 3.3 which the DAACs are interested in.

How can we provide what the DAAC is asking for ? This is my view of how this can be done. Mike S. Please jump in if I'm wrong.

- Install HDF 4.0 in a parallel directory:
  /Ir1_IT/daac_toolkit_f77/TOOLKIT/hdf/ARCH/HDF4.0r?/...
- Create setup files to change environment variables on the fly.
- Provide handy aliases for setting the environment variables.

This approach can be tested quickly on the MSFC equipment. Darrell Hickman tells me that we can run some quick test cases to confirm the sanity of our approach.

Issues/Caveats:

- Toolkit is NOT tested with HDF 4.0 and we may run into unanticipated problems. DAACs may have to take ownership there.

- We will provide the HDF version on AS IS basis (no warranty) because of the above reason.

Nitin 4/15 -- HDF 4.0 to be installed by EDF at LaRC and GSFC. This does not change the Ir1 baseline since Toolkit is tested with only HDF 3.3. Toolkit RA version will be delivered with HDF 4.0 end of April. A "compiled" version of HDF 4.0 should be available for installation by 4/25. It has been confirmed that by setting environment variables, users will be able to switch between the two versions of the HDF.

Resolution: Nitin 4/17 -- HDF to be installed at all sites. Compiled version of HDF 4.0 needed for installation. Dave Winne to provide location for HDF for the three object formats on sgi. HDF 4.0 to be installed as part of 1.04

Problem Id: ECSed01845
Severity: 4
Title: Install emacs on the Science Processor
Problem: The emacs editor should be installed on the Science Processor as well as the AI&T workstations. This simplifies the user SSI&T support process.
               Analysis: emacs is part of SGI OS. Craig to update the locations etc.
Resolution: emacs installed.

Problem Id: ECSed01847
Severity: 3
Title: Single-Threaded IMSL required for NAG F90
Problem: (1) Need to update the master ir1 configuration for IMSL so that the new imsl directory is included.

Marek 4/2/96: On edh1 server there is an outdated version of IMLS library for SGI Power Challenge. Instruction to install IMSL suggest getting tar file from this place and of course this does not work result in numerous complains from science teams. We do have new IMSL on our Power Challenge. To fix problem Linwood Moses has to update imsl.sgi.tar file and he is working on this now. I am checking the date on this file and I will broadcast message about update to all parties I am aware of.

Fix: Nitin 4/3
- Linwood has updated the tar file on edhs1.
- Documentation for download to be corrected.
- Once this is done we need to broadcast this to sites.
- Install new version at GSFC (LaRC and EDC already installed).

Resolution: Update the IMSL copy on edhs server.

Problem: (2) The Ir1 configuration needs to include a single-threaded version of IMSL for compatibility with the NAG F90 compiler. This is in addition to the multi-threaded version delivered with Ir1 1.02.

A copy of this single-threaded version, /vendor/newimsl, has been provided to the Langley DAAC. Although this library does appear to function with NAG F90, the IMSL setup files are not compatible with NAG. Langley has a set of workarounds in place, and a more complete set of setup files in progress.

This NCR is being submitted to ensure that both IMSLs are a part of the baseline Ir1 system.

Problem Id: ECSed01849

Severity: 3

Title: Apparent csh incompatibilities with AutoSys

Problem: The CERES SSI&T team has encountered problems running their csh-based PGEs through AutoSys. More investigation into this issue is required to determine the exact nature of the problem. This NCR is being submitted to note a potential showstopper.

Suggested workarounds, such as addition of the "-f" parameter to the internal shell script, or use of a Korn shell wrapper to initiate c-shell script execution, are not practical or satisfactory.

Nitin 4/1: Questions to ask are:
1. What happens if a csh script is run ?
2. What does use of -f flag cause the problem to go away ?

Analysis: Alward 3/11
As long as there is an executable to run by the autosys, it will run irrespective of the script language. Lou Kivaris had problems running C shell scripts using the PDPS but it turned out there was an error in the script itself. PDPS

uses PGS_PC_Shell program to run the executables and is not language dependent. Corey has managed to run korn shell scripts as well.

Analysis update: The .cshrc file for the users at Langley contains a line such as setenv MAIL /something/something/$USER.

When the job is submitted to Autosys through the PDPS, $USER is not defined resulting in the failure of the execution of .cshrc file. That is why the PGE is executed successfully when used with !# /bin/shell -f option which avoids the 'sourcing' of .cshrc file. One solution to this problem is to define USER in the DptRunProfile.sh but that is really not a good solution since there may be other similar variable used later and so on. Another problem which may result is in the case of .cshrc being interactive, thus hanging the system. Considering these facts, by far the best solution is to use the -f option. In a production environment there should not be any .cshrc 's dependencies.

Fix: Define default csh environment variables in DpAtRunProfile.sh.template.

> HOME
> USER
> TERM
> PATH

Note that sites have to ensure that .cshrc DOES not contain any interactive setup in batch processing if they don't want to add the -f flag.

Resolution: User setup files to be corrected.

Problem Id: ECSed01854
Severity: 4
Title: ClearCase Admin manuals
Problem: The documentation delivered with Ir1 only included the user-oriented set of ClearCase manuals.

Some time ago, Morris Patterson requested a site copy of the Administrator's manual(s), but so far we have not received an answer.

We are using ClearCase quite heavily here with the large number of software deliveries, and desperately need a full set of ClearCase documentation. Can anything be done to expedite this request?

Update: Craig 4/5
I have requested 6 copies of the ClearCase Administration manual, ClearCase Reference manual, and a ClearCase introduction manual from the reproduction group. They should be ready in a week, due to Rel-B CDR. These six copies are for the following:

QTY   Location

<pre>
          1   GSFC IR-1
          1   LaRC IR-1
          1   EDC IR-1
          1   MSFC/GSFC IR-1
          1   EDF IR-1 (Possible move into Rel-A Mini-DAAC)
          1   Control by EDS inventory to be able to make copies for any
                 new ClearCase server installations.
</pre>

The Sub-Contract with Atria states that we have the right to copy all documentation for ClearCase. Once the copies are complete and I find binders for them, Who should I speak to for shipping to the DAAC sites. HTSC (Bob Keener) to distribute.

Resolution: HTSC (Bob Keener) to distribute the manuals to the sites.

Problem Id: ECSed01859
Severity: 4
Title: Prohibited Func checker flags commented out functions
Problem: In email rec'd 3/20/96, Steve Berrick of the ECS Science Office states:

The Prohibited Function Checker should not flag prohibited functions which are commented out or are part of a literal in the source file (currently, at least in F77 code, commented out prohibited functions are flagged).

Tom 4/1

Resolution: Guru Tej S. Khalsa discovered a bug that caused every other line of Fortran comments to be skipped in the analysis. This is now fixed, so no functions in comments should be flagged.

Fix was to source module DpAtMgrSource.cxx and executables badfunc and xbadfunc .

Tom 4/1

Problem Id: ECSed01860
Severity: 2
Title: Hardware errors with jukebox on sprlsgigsfc
Problem: Message from Jeff Armstrong to Joe Hurst). This a follow-up E-Mail to our phone conversation concerning the malfunctioning Exabyte Jukebox tape units.

Exabyte Jukebox for SPR1SGIGSFC - S/N 11003365 / problem:
    The jukebox is getting scsi bus errors and causing SPR1SGIGSFC to crash.
Exabyte Jukebox for ICL1SGIGSFC - S/N 11003547 / problem:
    This unit is periodically unable to grab the tape from the drive, cause a "DROPPED TAPE" condition which hangs the drive and Networker. This unit was being used to replace the original tape unit on SPR1SGIGSFC (above).

Workaround: We are now using the Exabyte Jukebox Tape unit (S/N 11003214) from SPRM1SGI from the MARSHALL Ir1 equipment on SPR1SGIGSFC to run our backups....

Resolution: Hardware problem. EDS (Joe Hurst) to look into the problem.

Problem Id: ECSed01861

Severity: 3

Title: SSIT Manager comparison fails for binary files (DR 29)

Problem: The SSIT Manager ASCII compare responded that two different compressed files were identical. The system should have responded either that the files were different or that the files were not ASCII. (Submitted by R Messerly)

Resolution: Fixed DpAtMgrXdiff.sh so that it prints a message to the screen if either the files are identical, or if they are binary files which differ. Tom 4/2

Problem Id: ECSed01863

Severity: 2

Title: AutoSys complains of corrupted database

Problem: Beginning Friday, March 29, AutoSys began complaining that its data base was corrupted. For an exact copy of the error messages received, contact Lou Kouvaris (lou@eos.hitc.com, x0774), or Morris Patterson (m.patterson@larc.nasa.gov, 804-864-8961).

Configuration problem with autosys31 database. Possible need to restore from database.

Fix: - Restore database from backup
          - Define procedures to recover in future.

Carol 4/5 -- The cause for the db being 'unrecoverable' during startup is due to the following reason:

- the txn log needs to be assigned it's own physical (Unix) space
- the dump device to where the txn log is dumped is a separate issue and needs to have it's own space.
- The problem on ait2sunlarc is that both the log and the dump device were pointing to the same exact path/file. In essence, this caused the txn log to be overwritten. When SQL Server is rebooted and does normal recovery, it tries to apply open txns that are in it's internal txn list to the db. The txn id in its list, was not found in the txn log because ... it was overwritten. To fix the problem required a call to Sybase for an undocumented and generally unsupported solution
- rebuild the txn log (after the dump device was pointing to it's own space). What this means is that any txn that were in the log, are lost forever. The database has been recovered to it's last state where the txn was successfully cleaned.
- The dump device was moved to a separate Unix file. I checked with the gsfc server and this is not a problem. However, this may very well be a problem with the other servers. The script that was sent out long ago to create the dump device, used a file name as an example and each site was

to modify the exact location as needed. It seems that the modification may not have been done. To rectify the problem, the following is an outline of the fix:

- log into isql as sa
- use autosys31 sp_dropdevice autosys31_dump (OR whatever the logical dump device name may be)
- sp_addumpdevice "disk", autosys31_dump, "/A DIFFERENT PATH:FILE THAN THE TXN LOG"

- Also, for the ir1_pdps database - a similar problem in nomenclature. There are 2 threshold procedures:

- sp_int_thresholdaction
- sp_thresholdaction

- In the latter, a generic name was used to indicate the dump device (e.g., sybaselog1_dump). The actual dump device should be ~ ir1_pdps_log_dump (it should be the same as in sp_int_thresholdaction). The generic name dump device does not exist. (I don't know why I would have left the generic name inside the procedure. I should have set it to the real thing before sending it out). This has not created a problem though because the (interim) sp_int_thresholdaction is doing it's job (at least on gsfc) and preventing the other threshold procedure from being called. (Yeah!) To sync the procedures up:

- log into isql as sa
- use ir1_pdps
- drop procedure sp_thresholdaction
- edit the script file to change the name of the dump device to ir1_pdps_log_dump
- create sp_thresholdaction the same way as originally done

- Remember backups of the db and txn log must be done on a regular basis. The threshold procedures take care of the txn log. But still, the Unix files that are created as a result of the Sybase backups, must also be backed up/moved off (for space reasons). Remember that there must be a valid backup of the db for the threshold procedures to work. That means anytime the Sybase Backup server goes down/comes back up, to b/u the db so that the threshold procedures can work when it is their time.

Nitin 4/5 -- LaRC system was down for a long time because of the problems mentioned below. We need to make sure that it is corrected at EDC and MSFC (apparently GSFC is not a problem). Note that this may affect way the logger database is setup also.

Resolution: Restored database.

Problem Id: ECSed01874
Severity: 3

Title: RAID failure on GSFC Science processor
Problem: From Jeff Armstrong 4/9
           This note is to follow-up our phone conversation about the RAID disk failure. The disk unit failed at 12:41 on 04/08/96. The failure occurred in the same cabinet that the multiple failures occurred. The error message in the log was: CRU powered down - Hard SCSI BUS ERROR -

           The S/N of the failed disk unit is : ma000115072 (an IBM disk). I will send the S/N of the replacement disk after it finishes rebuilding.

           Analysis: Hardware problem. Possibly replace the recalled IBM disks.
           Fix: Hardware to be replaced.
Resolution: Nitin, I have not checked the NCR database, but since the guys have made the swap, you can close the NCR as a fix.

           FYI, a replacement drive from the inactive unit was used for the failed IBM disk. Today, the SGI engineer replaced the failed disk and a good disk was put in the inactive unit.

           Carolyn

Problem Id: ECSed01888
Severity: 3
Title: Blower problem on sprlsgigsfc
Problem: SPR1SGIGSFC - Blower problem occurring at system power-up: It's a timing problem in the power-on process. Hardware problem.
           Fix: The fix is a new PROM chip that increases the power-on process wait-state. The chip should be installed on 04/16/96.
Resolution: Blower corrected 4/16. Jeff to verify.

Problem Id: ECSed01889
Severity: 3
Title: RAIDS disk units spin-up problems
Problem: The units had problems spinning up after a system outage. After several attempts, the units are now operational.
           Analysis: hardware!
Resolution: All Raid disk units are scheduled to be replaced. (25 disks)

Problem Id: ECSed01901
Severity: 3
Title: Command-line DPR submission causes core dump
Problem: Command-line DPR submission causes core dump.
           Argument Example:

               > DpAtProcessingGui -prompt
               Enter argument 1
               -piname
               Enter argument 2
               -ptmock_ASTER

Enter argument 3
                    -pv5.0
                    Enter argument 4
                    end

           This is a sort of bug which stayed dormant for all this time. Apparently a
           string variable is declared in pge class definition which is not initialized. The
           constructor for the class had a statement strlen(that_variable) which was the
           cause of the coredump. That particular statement is not required and may
           have been left over form early development work. The simple solution is
           comment it out.
Resolution: The offending statement is taken out

Problem Id: ECSed01902
Severity: 3
Title: DpAtMgrErrors.sh not installed with execute permissions
Problems: I tried to run a Ir1 PDPS-build supplied script which reads and reports
            runtime error message to the user. The script is installed as
            $DPAT_EVENTLOG/DpAtMgrGetErrors.sh. It has been installed (initial Ir1
            deployment) at LaRC, GSFC and EDC DAACs without execute permissions
            for anyone. I found that with the Ir1 build 1.03 installed for pre-release I&T
            on the MSFC h/w this script was also installed without execute permissions.
Resolution: Changed install script DpAtINSTALL.sh so that DpAtGetErrors.sh is created
            with execute permission for ALL instead of write permission for USER. Fix
            available next delivery.
            WORKAROUND: Change permission of the file:
              cd $DPATMGR_HOME/bin/sun5
              chmod a+x DpAtGetErrors.sh

Problem Id: ECSed01910
Severity: 1
Title: Fortran binding removed from file PGS_PC_GetPCSData.c
Problem: Toolkit 6 has moved the Fortran bindings for .c files to a common location,
             unlike the Ir1 toolkit which has the Fortran binding embedded in the .c file.

             This file turned over for 1.03 build had the Fortran binding removed and it
             causes a undefined symbol at link time.

             Analysis: Restore binding. Ir1 1.03 installation held up. Fix: Files to be
             changed are:

                 PGS_PC_GetPCSData.c
                 PGS_PC_PutPCSData.c

             Fortran binding to be put back.
             Resolution: Files are noted in the Fix attachment. Files turned over and
             available in IR1_TOOLKIT_041096.tar.z file. To be deployed in 1.04.

Problem Id: ECSed01911

Severity: 3
Title: New option -p in PGS_PC_Shell.sh causes problem
Problem: This options is new for TK6 and causes problem in Ir1 environment (since PDPS Ir1 software is unaware of the option). A successful status is returned even if the PGE fails.

The problem is due to TK6 version of the file turned over for Ir1 1.03.
Analysis: Correct file to include only the related NCR fix.
Fix: Change file /PDPS/IR1/AIT/src/DpAt/Execution/DpAtExecution.cxx to include the -p flag to be passed to PGS_PCshell.sh. The -p flag is TK5.1 feature. Note that PDPS code is being changes to accommodate this.
Resolution: File noted in Fix attachment.

Problem Id: ECSed01933
Severity: 2
Title: sprlsgiedc system console broken
Problem: Problem identified on 4-8-96.WYSE terminal (used as SGI console) will not complete self-diagnostics after being powered off/on. After partial self-diagnostics completes terminal displays a 'K' in the lower right-hand corner.

Switched keyboards with another unit. Same problem with after self-diagnostics. Replaced old keyboard.

Switched out WYSE terminal with a spare unit to ensure connectivity to the SGI computer. Login sequence received. Spare unit works okay.

Replaced original WYSE unit. After powering on the unit, had the same problem: WYSE terminal (used as SGI console) will not complete self-diagnostics after being powered off/on. After partial self-diagnostics completes terminal displays a 'K' in the lower right-hand corner.

Analysis: 4-9-96
Contacted Bob Byrnes about the problem. Bob mentioned that the terminal was bought with the SGI purchase. Bob indicated that he would get with Joe Hurst. Joe called with an SGI reference number, number #0583109. SGI called, explained problem to SGI. SGI will be sending out a new unit, and indicated to package the old unit and send it back to SGI.
Resolution: Replace the terminal. 4-10-96 new unit arrived.

Old WYSE terminal:
    part number# 900109-07
    serial number# 01C15103856
keyboard: K/B WY60 ACSII #840338-01
    part number# 840338-01
    serial number# N/A

Replacement WYSE terminal:
    part number# 900109-07
    serial number# 01C14B01410

keyboard: K/B WY60 ACSII #840338-01
  part number# 840338-01
  serial number# N/A

Took off the NASA sticker from old unit and placed on replacement unit.
Took unit to dissemination to be FedExpressed

Problem Id: ECSed01978
Severity: 3
Title: Error in DpAtEnv setup file
Problem: The AI&T Manager setup file, DpAtEnv.csh, adds the following file to the
              user's directory search path:

      /usr/local/bin/emacs

This program is a file, not a directory, and should not be added to the search
path. /usr/local/bin is already in the search path at this point.

The remaining search path entries should be verified to ensure that all other
entries are appropriate.

NOTE: A Bourne shell version of this file is available from the Langley
DAAC.

Analysis: Nitin 5/8

I checked the machines at the sites and emacs is showing up as a file in
/usr/local/bin. More interesting is the following:

    on ait2 machines emacs is /usr/local/bin/emacs
    on mss1 machines it is /tools/bin/emacs.

Looks like we should change the script as suggested in the NCR.

Fix: Correct file DpAtEnv.csh to exclude the emacs dir
(/usr/local/bin/emacs). To be included in next build (1.04).

Resolution: File corrected.

Problem Id: ECSed02010
Severity: 3
Title: Shell inconsistencies (DR 32)
Problem: Submitted by IVV. While transferring files (via rcp), it was determined that
              sender and receiver shells were inconsistent. The EDC system specifies C-
              Shells, and the EDF system specifies Bourne Shells.

              The machine which was in question for SMOdr0032 was ait1 at EDC. We
              were trying to rcp from there to the EDF and found the inconsistencies in the
              shells. The reason for the discrepancy report was to insure that HITC informs

all M&O personnel to use the same default shells when creating accounts. Additional information can be obtained from Jane Burckhard at EDC 605-594-6824 (HITC M&O) burck@edcserver1.cr.usgs.gov.

Analysis: User nvazarka had no problems in rcp. Question is why rcp is being tried ? Another user setup issue ?

Fix: No change.
Resolution: No change

Problem Id: ECSed02011
Severity: 3
Title: Multiple installation of HDF3.3 on science processor (DR 22)
Problem: HDF 3.3 is installed under each flavor of toolkit. It results in usage of large amount of space.
Resolution: HDF 3.3 is installed at four locations.
Fix: Install HDF only at one place and link all flavors of the toolkit to point to this installation. To be installed in /Ir1/HDF33

5.3 Ir1 Non-Conformance Reports (Open Status)

NCRs still opened as of May 20, 1996
Problem Id: ECSed01564
Severity: 4
Title: Line on Alarm Mgr. Window is chopped partially.

Problem Id: ECSed01610
Severity: 3
Title: Closing Acrobat incorrectly will terminate display.

Problem Id: ECSed01615
Severity: 3
Title: Errors with Wabi when editing files and then saving them.

Problem Id: ECSed01623
Severity: 3
Title: Autosys doesn't recognize processing system fault.

Problem Id: ECSed01654
Severity: 5
Title: Anonymous FTP not supported in Ir1,

Problem Id: ECSed01656
Severity: 3
Title: syslogd causes system to crash when HPOV is running.

Problem Id: ECSed01683
Severity: 5
Title: Cleanup of CDSBROWSER necessary.

Problem Id: ECSed01687
Severity: 3
Title: Special characters in password cause problems in FTP

Problem Id: ECSed01733
Severity: 4
Title: Clobbering of SDP Toolkit environment setup

Problem Id: ECSed01735
Severity: 4
Title: Sun core dump on exit

Problem Id: ECSed01758
Severity: 3
Title: Need setup files for all shells

Problem Id: ECSed01759
Severity: 2
Title: PGSHOME directory structure different for SCF and DAAC toolkits

Problem Id: ECSed01764
Severity: 2
Title: Science process and mss sun depend on each other for booting.

Problem Id: ECSed01776
Severity: 3
Title: Checker does not account for #ifdef's in source

Problem Id: ECSed01786
Severity: 3
Title: GUI disappears and program quits intermittently during normal analysis

Problem Id: ECSed01792
Severity: 3
Title: Climatology database not supplied

Problem Id: ECSed01805
Severity: 3
Title: Discrepancy in VDD and location/contents of the software

Problem Id: ECSed01810
Severity: 3
Title: PCF Checker can not handle big file

Problem Id: ECSed01812
Severity: 3
Title: Use of PCF template is not mandatory

Problem Id: ECSed01819
Severity: 3
Title: CERES/MISR/MPOITT TK Mods for LaRC

Problem Id: ECSed01820
Severity: 3
Title: GUI disappeared after second file specified

Problem Id: ECSed01822
Severity: 3
Title: IMSL function rline aborts

Problem Id: ECSed01827
Severity: 3
Title: PCF Checker does not check if filenames are missing

Problem Id: ECSed01842
Severity: 3
Title: Need Default Printer for Science Processor

Problem Id: ECSed01846
Severity: 3
Title: EOSView cannot find Help Files

Problem Id: ECSed01850
Severity: 3
Title: PGSMSG directory requires world write

Problem Id: ECSed01852
Severity: 2
Title: Problems with networker software

Problem Id: ECSed01862
Severity: 3
Title: Site hardware does not match VDD (DR 43)

Problem Id: ECSed01867
Severity: 3
Title: Corrections to the VDD

Problem Id: ECSed01869
Severity: 3
Title: Network appears to be slow between MOPIT and LaRC.

Problem Id: ECSed01885
Severity: 2
Title: SGI ANSIC violations (errors in standard library compile)

Problem Id: ECSed01886

Severity: 2
Title: SGI native compiler bugs

Problem Id: ECSed01890
Severity: 3
Title: The system clock moves ahead one day after reboot on spr1sgigsfc

Problem Id: ECSed01895
Severity: 3
Title: Upgrade networker software to 4.1.3

Problem Id: ECSed01905
Severity: 3
Title: Updates to PDPS thresholds/Updates to Autosys script

Problem Id: ECSed01906
Severity: 3
Title: Modify Sybase Dump device for EDC Autosys log device

Problem Id: ECSed01907
Severity: 3
Title: Upgrade Ir-1 Systems to perform Sybase Database Backups

Problem Id: ECSed01908
Severity: 3
Title: Upgrade Ir-1 Systems to perform Sybase Backups (GSFC)

Problem Id: ECSed01909
Severity: 3
Title: Upgrade Ir-1 Systems to perform Sybase Backups (EDC)

Problem Id: ECSed01977
Severity: 3
Title: Install rusage Officially

Problem Id: ECSed01979
Severity: 3
Title: A pgs-dev-env File Support for SCF Toolkit

Problem Id: ECSed01980
Severity: 3
Title: DAACsgi64F90 Alias Incorrect

Problem Id: ECSed01981
Severity: 3
Title: Install HPOV and Tivoli at the DAACs

Problem Id: ECSed01982
Severity: 3

Title: End-To-End NAG F90 Support

Problem Id: ECSed01983
Severity: 3
Title: Need Non-alias Mechanism for SDP Toolkit Environment Setup

Problem Id: ECSed02007
Severity: 3
Title: Cannot perform software verification (DR 14)

Problem Id: ECSed02008
Severity: 3
Title: Autosys Problems (DR 33)

Problem Id: ECSed02009
Severity: 3
Title: CaseVision Configuration (DR 34)

Appendix F. Archive Tapes

The following magnetic tape is used to archive the delivered baseline configuration of the developed software.

904-PR-007-006
Label: ECS IR1 Distribution   Date: May 20, 1996
>>> 5.0gbyte format (high density) <<<

IR1_PDPS_AIT_SGI_051096.tar.Z
IR1_PDPS_AIT_SUN5_051096.tar.Z
IR1_TOOLKIT_041096.tar.Z
IR1_TOOLKIT_110995-AAdata.tar.Z
HDF3.3r4.tar.Z
HDF4.0r1p1.tar.Z

All documents (VDD and User's Guide)
Command to untar tar tape: tar xvf ##
where ## = your tape device
Command to untar tar file: tar xvf file.tar
You must uncompress the .Z files
(uncompress IR1_PDPS_AIT_SGI_051096.tar.Z)